

Declaration on radiation safety standard conformance

Nedap N.V.

Parallelweg 2
7141 DC Groenlo
The Netherlands

T: +31 (0)544 471 111
info@nedap.com
www.nedap.com

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Return address: Parallelweg 2, 7141 DC Groenlo, The Netherlands

American Certification Body
Certification Department
6731 Whittier Avenue, Suite C110
McLean, Virginia 22101
USA

To whom it may concern,

Description : Reader for 120 kHz and 13.56 MHz cards and also NFC, QR and BT
FCC ID : CGDNVR2001
FRN : 0007696149
Brand : Nedap
Manufacturer : Nedap N.V.
Model : NVR2001

The NVR2001 (also) contain a Bluetooth module model: RN4020 by Microchip, FCC ID: T9JRN4020 with a RF output power of max 8.44 dBm (7 mW). The antenna of the Bluetooth module has a peak gain of 0 dBi.

REPORT NO: 14U17191-1
FCC ID: T9JRN4020

DATE: MARCH 21, 2014
IC: 6514A-RN4020

7.4. OUTPUT POWER

LIMITS

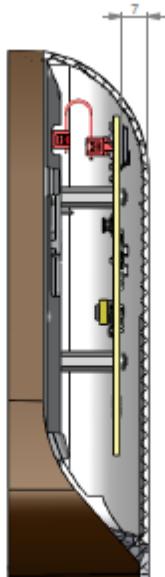
FCC §15.247 (b)

IC RSS-210 A8.4

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

RESULTS

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	7.89	30	-22.110
Middle	2442	8.27	30	-21.730
High	2480	8.44	30	-21.560



SECTION A-A

The enclosure of the NVR2001 provides a guaranteed minimum separation distance of 7 mm between the antenna/radiating element and the user.

According to 447498 D01 General RF Exposure Guidance v06, section 4.3.1 a) the SAR exclusion threshold is determined as follows:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times [Vf_{(\text{GHz})}] \leq 3.0$$

$$[(7 \text{ mW}) / (7 \text{ mm})] \times [Vf(2.480 \text{ GHz})] \leq 3.0$$

$$[(7 \text{ mW}) / (7 \text{ mm})] \times [Vf(2.480 \text{ GHz})] \leq 3.0$$

$$1 \times 1.57 \leq 3.0$$

$$1.57 \leq 3.0$$

$$1.6 \leq 3.0$$

According to 447498 D01 General RF Exposure Guidance v06, section 4.3.1 a) the NVR2001 are exempt from standalone SAR testing.

Best regards,
Nedap N.V.

René Waenink



Compliance Manager